

## **ABSTRACT OF THE DISCLOSURE**

### **DUAL PHASE FLUSH URINAL**

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The present invention provides a dual-phase flush urinal that maintains itself in a sufficiently sanitary condition with minimal water consumption. The urinal includes a piece of chinaware having a rear wall with a pair of sidewalls depending normally outward therefrom. A bottom extent of the sidewalls terminates in a curved bowl portion having a fluid well and a water drain therewithin. The sidewalls and rear wall together define a containment area in which an atmospheric vacuum breaker and valve means are disposed. The valve means is in electrical communication with a sensor that detects the presence of a user and has a first fluid discharge port in fluid communication with the bowl portion and a second fluid discharge port. Upon detection of the user, the sensor transmits a first signal to the valve means to initiate a first water exchange phase of the flush cycle. The first fluid discharge port provides water along an elongate channel to remove waste from the bowl portion. After a preprogrammed delay, the sensor transmits a second signal to the valve means to initiate a subsequent, time-delayed wall-scouring phase of the flush cycle. The second fluid discharge port provides water through a urinal spreader to ensure rinsing of the back surface subsequent to actuation of the jet. The valve means operates according to a desired preprogrammed schedule to ensure delivery of adequate water to the urinal jet and expulsion of waste from the urinal to an exterior sewage system.

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